

10/547447
JC17 Rec'd PCT/PTO 26 AUG 2005

Docket No.: 12810-00119-US
(PATENT)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of:
Andreas Renz et al.

Application No.: Not Yet Assigned

Confirmation No.: N/A

Filed: Concurrently Herewith

Art Unit: N/A

For: METHOD FOR THE PRODUCTION OF
POLYUNSATURATED FATTY ACIDS

Examiner: Not Yet Assigned

INFORMATION DISCLOSURE STATEMENT (IDS)

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

Pursuant to 37 CFR 1.56, 1.97 and 1.98, the attention of the Patent and Trademark Office is hereby directed to the references listed on the attached PTO/SB/08. It is respectfully requested that the information be expressly considered during the prosecution of this application, and that the references be made of record therein and appear among the "References Cited" on any patent to issue therefrom.

This Information Disclosure Statement accompanies the new patent application submitted herewith.

Applicant has not submitted copies of each cited U.S. patent and U.S. patent application as required by 37 CFR 1.98(a)(2)(i), amended October 2004, as the U.S. Patent and Trademark Office has waived this requirement for all U.S. patent applications. Applicant submits herewith copies of foreign patents and non-patents in accordance with 37 CFR 1.98(a)(2).

Applicants believe no fee is due; however, if a fee is due, the Director is hereby authorized to charge any deficiency in the fees filed, asserted to be filed or which should have

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been filed herewith (or with any paper hereafter filed in this application by this firm) to our
Deposit Account No. 03-2775, under Order No. 12810-00119-US from which the undersigned is
authorized to draw.

Respectfully submitted,

8-26-05

By 

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411621

Substitute for form 1449A/B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>				Complete if Known	
				Application Number	Not Yet Assigned
				Filing Date	Concurrently Herewith
				First Named Inventor	Andreas Renz
				Art Unit	N/A
				Examiner Name	Not Yet Assigned
				Attorney Docket Number	12810-00119-US
Sheet	1	of	3		

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number Number-Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	AA*	US-5,614,393	03-25-1997	Thomas et al.	
	AB*	US-5,968,791	10-19-1999	Davies et al.	
	AC*	US-6,043,411	03-28-2000	Nishizawa et al.	
	AD*	US-2004/0111763	06-10-2004	Heinz et al.	

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Foreign Patent Document Country Code ³ - Number ⁴ -Kind Code ⁵ (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
	BA	WO-91/13972	09-19-1991	Calgene Inc.		
	BB	WO-93/06712	04-15-1993	Rhone-Poulenc Agrochimie		
	BC	WO-93/11245	06-10-1993	E. I. duPont de Nemours And Company		
	BD	EP-0 550 162	07-07-1993	Pioneer Hi-Bred International, Inc.		
	BE	WO-94/11516	05-26-1994	E. I. duPont de Nemours And Company		
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	BH	WO-96/21022	07-11-1996	Rhone-Poulenc Agrochimie		
	BI	WO-97/21340	06-19-1997	Cargill, Inc.		
	BJ	WO-97/30582	08-28-1997	Carnegie Institution Of Washington & Monsanto Company		
	BK	EP-0 794 250	09-10-1997	Soremartec S.A. & Ferrero S.p.A.		
	BL	WO-98/27203	06-25-1998	Kosan Biosciences		
	BM	WO-98/46764	10-22-1998	Calgene LLC & Abbott Laboratories		
	BN	WO-98/46776	10-22-1998	Calgene LLC		
	BO	WO-98/46763	10-22-1998	Calgene LLC & Abbott Laboratories		
	BP	WO-98/46765	10-22-1998	Calgene LLC & Abbott Laboratories		
	BQ	WO-98/55625	12-10-1998	Calgene LLC		
	BR	WO-99/27111	06-03-1999	University of Bristol		
	BS	WO-99/64616	12-16-1999	Abbott Laboratories		
	BT	WO-00/18889	04-06-2000	Calgene LLC		
	BU	WO-00/21557	04-20-2000	Merck & Co., Inc.		

Examiner Signature		Date Considered	
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)				Application Number	Not Yet Assigned
				Filing Date	Concurrently Herewith
				First Named Inventor	Andreas Renz
				Art Unit	N/A
				Examiner Name	Not Yet Assigned
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	BV	WO-00/42195	07-20-2000	Calgene LLC		
	BW	WO-01/59128	08-16-2001	BASF Aktiengesellschaft		See US 2004/0111763
	BX	WO-02/072742	09-19-2002	Societe Des Produits Nestle S.A.		

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. * CITE NO.: Those application(s) which are marked with an single asterisk (*) next to the Cite No. are not supplied (under 37 CFR 1.98(a)(2)(iii)) because that application was filed after June 30, 2003 or is available in the IFW. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

NON PATENT LITERATURE DOCUMENTS				
Examiner Initials	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.		T ²
	CA	ABBADI, A. et al., "Transgenic Oilseeds As Sustainable Source Of Nutritionally Relevant C20 and C22 Polyunsaturated Fatty Acids?", Eur. J. Lipid Sci. Technol. 103 (2001), pp. 106-113.		
	CB	AKERMOUN, M. et al., "Complex Lipid Biosynthesis: Phospholipid Synthesis", Biochemical Society Transactions 28 (2000), pp. 713-715.		
	CC	CASES, S. et al., "Identification Of A Gene Encoding An Acyl CoA:diacylglycerol Acyltransferase, A Key Enzyme In Triacylglycerol Synthesis", Proc. Natl. Acad. Sci., USA, 95 (1998), pp. 13018-13023.		
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	CH	LANDS, W. E., "Metabolism Of Glycerolipids", The Journal Of Biological Chemistry 235, 8 (1960), pp. 2233-2237.		
	CI	LOPEZ ALONSO, D. et al., "Plants As 'Chemical Factories' For The Production Of Polyunsaturated Fatty Acids", Biotechnology Advances 18 (2000), pp. 481-497.		
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	CL	MISHRA, S. et al., "Purification And Characterization Of Thiol-Reagent-Sensitive Glycerol-3-Phosphate Acyltransferase From The Membrane Fraction Of An Oleaginous Fungus", Biochem. J. 355 (2001), pp. 315-322.		
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Examiner Signature		Date Considered	
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PTO/SB/08a/b (07-05)

Approved for use through 07/31/2006. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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Substitute for form 1449A/B/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)				Application Number	Not Yet Assigned 10/547441
				Filing Date	Concurrently Herewith
				First Named Inventor	Andreas Renz
				Art Unit	N/A
				Examiner Name	Not Yet Assigned
Sheet	3	of	3	Attorney Docket Number	12810-00119-US

		Acid Desaturase And Can Be Functionally Replaced By The Rat Stearoyl-CoA Desaturase Gene", The Journal of Biological Chemistry, 265, 33 (1990), pp. 20144-20149.	
	CO	STYMNE, S. et al., "Evidence For The Reversibility Of The Acyl-CoA:lysophosphatidylcholine Acyltransferase In Microsomal Preparations From Developing Safflower (<i>Carthamus tinctorius</i> L.) Cotyledons And Rat Liver", Biochem. J. 223 (1984), pp. 305-314.	
	CP	METZ, J. G. et al., "Production Of Polyunsaturated Fatty Acids By Polyketide Synthases In Both Prokaryotes And Eukaryotes", Science 293 (2001), pp. 290-293.	
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	CR	TUMANAY, A. W. et al., "Synthesis Of Azidophospholipids And Labeling Of Lysophosphatidylcholine Acyltransferase From Developing Soybean Cotyledons", Biochimica et Biophysica Acta 1439 (1999), pp. 47-56.	
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	CT	WANG, X. M. et al., "Biosynthesis And Regulation Of Linolenic Acid In Higher Plants", Plant Physiol. Biochem. 26, 6 (1988), pp. 777-792.	
	CU	YAMASHITA, A. et al., "ATP-Independent Fatty Acyl-Coenzyme A Synthesis From Phospholipid, Coenzyme A-Dependent Transacylation Activity Toward Lysophosphatidic Acid Catalyzed By Acyl-Coenzyme A:Lysophosphatidic Acid Acyltransferase", The Journal of Biological Chemistry 276, 29 (2001), pp. 26745-26752.	
	CV	WILKINSON, J., "Putative1-Acyl-sn-glycerol-3-phosphate acyltransferase T0638.1 (EC 2.3.1.51) (1-AGP acyltransferase) (1-AGPAT) (Lysophosphatidic acid acyltransferase) (LPAAT), EBI Database Accession No. Q22267, 12/15/1998, (XP002290711).	
	CW	WILKINSON, J., "Genome sequence of the nematode <i>C. elegans</i> : a platform for investigating biology", EBI Database Accession No. Z73975, 6/9/1996.	
	CX	ZANK, T.K., et al., "Cloning and functional expression of the first plant fatty acid elongase specific for Δ^6 -polyunsaturated fatty acids", Biochemical Society Transactions, 28, 6 (2000), pp. 654-658.	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹Applicant's unique citation designation number (optional). ²Applicant is to place a check mark here if English language Translation is attached.

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